Supplementary Material

We merged the data obtained from the two consultations in England and Germany to combine all information about contextual enablers and barriers in one country. If participants explicitly mentioned that certain information applies to home-based palliative care in contrast to reinforced HBPC this is mentioned in the summaries.

Table 1 Expert consultation findings in England

Domains	Identified barriers	Suggested solutions
Geographical	Difficult access in rural areas	
	Resource implications to guarantee access (see Funding)	
	Heterogeneity of HBPC service throughout England	
Locational	• Sometimes housing not appropriate (heating, cleanliness,	Usually staff can manage due to existing referral routine within
	lighting etc.)	palliative care: questions on form to ensure everything is
	In the beginning HBPC can be felt as an intrusion	prepared (risks in house, facilities, medication)
Epidemiological	• For the very old, HBPC can be difficult (housing situation, basic	
	care) and an informal caregiver is essential for very old patients	
	Very old people have reduced access to palliative care services	
	Fast disease progress can be hard on patients and family	
Socio-cultural	Cultural mix in England that rHBPC should recognize	Needed provider skills: cultural sensitivity, communication
	Disagreement with HBPC by family member	skills, cultural treatment skills
	Disagreement with treatment by family member	
	Psychological defence mechanisms of family leading to	
	problems (families collude in trying to save patient's feelings)	
	Patient's defence mechanisms (e.g. refusal of equipment at	
	home leading to medical problems when needed urgently)	
	Language barriers	Information in different languages
		Available professional translator, however, often a family

Domains	Identified barriers	Suggested solutions	
		member can translate	
Socio-economic	 Poverty is a major factor for inadequate access to palliative care HBPC is available to all social classes (in contrast to hospice = middle class) Different view of death and dying among different socio-economic classes (tied to geographical areas, e.g. miner region) Housing issues related to poverty (heating, cleanliness) which makes HBPC difficult For working family members HBPC can be restraining due to lack of time/resources 	 Existing referral routine within palliative care: questions on form to ensure everything is prepared (risks in house, facilities, medication) Respite care ("variable intensity palliative care") available in some institutions to offer family members time to go shopping etc. (in final few weeks) 	
Political	 Governmental priority influences HBPC implementation, financing etc.: at the moment it is high priority but this can soon change due to a change in government Changing priorities depending on the government in charge (legislation period) 		
Legal	Situation can be difficult for informal caregiver	Legal protection for informal caregiver	
Ethical	 Preferred place of death should be acknowledged, bedavailability in hospice is sometimes difficult → HBPC is an alternative Denial among family/patient Freedom of choice for cardiopulmonary resuscitation (CPR) etc. is important 	Talks with GP long before service starts, so patients talk more often about it	
Provider	 To take care of young patients is emotionally hard on professional caregivers Training and support is important 	Regular team meetings, talks, for relief of psychological burden of work	

Domains	Identified barriers	Suggested solutions
	 Communication skills are important Extensive experience of staff improves communication and coordination Good network/organisation within the team is important (more important than individual skills) Cooperation between informal and professional caregivers: professional caregivers need to be prepared to step back and hand over responsibility 	Clear distinction between tasks and responsibilities, clear communication between professional and lay caregivers
Organisational	 Organisation of services is a problem, actually a problem of the NHS as a whole and other institutions/organisations involved in palliative care: services are not always linked together (e.g. lack of communication between everyone involved in palliative care) 	Better technical solutions needed → financing needed
Funding	 Limited resources in UK healthcare system, the NHS is financially squeezed, Lack of knowledge of funding in palliative care (no data about how much it costs) Heterogeneity of funding between institutions within England Financial burden of informal caregivers is huge 	Research in financing palliative care is the first step for finding solutions
Policies	 Increasing awareness of palliative care has led to policies NHS receives lots of complaints about palliative care (more than anything else) opening a window of opportunity for policies to improve palliative care 	

Table 2 Expert consultation summary findings in Germany

Domains	Identified barriers	Measures/Solutions
Geographical	Rural areas are disadvantaged, no access due to long distances for the ambulatory ("specialised HBPC") teams	 GP would be key person to initiate and conduct basic HBPC Palliative care centres needed in rural areas Flexible teams to be at least able to take care of anyone needing HBPC (as guaranteed by law) More flexible contracts and more flexible models of health insurance cooperation (exemplary model: child HBPC care in Germany)
	→ Lower quality due to restricted time of GPs for HBPC	 Big satellite HBPC (German specialised ambulatory palliative care ("SAPV")) teams = small teams that are affiliated with big team seated in bigger city → prevention of long driving distances, but still in development in few areas, development of well-working concepts needed Tele-medicine needed (skype, symptom control by mobile phone etc.)
Locational	 Lacking space is a challenge for HBPC when the patient is part of a big family HBPC in residential homes for the elderly (also defined as "home" by law) cannot solve existing problems there (lack of personnel, quality of basic care etc.) 	
Epidemiological	 More older people living alone, no possibility of informal care, leading to difficulties to provide (r)HBPC → transfer to old people's home Mostly women as informal carers of HBPC patients (daughters, sisters, wives) Change over past few years that more younger patients with 	

Domains	Identified barriers	Measures/Solutions
	 low SES are reached by HBPC At the moment patients from a war generation that learned to block pain → need for different communication and pain medication General question if there is actually the need within the target population for a separate HPBC model with focus on reinforced care among patients/families? 	 Qualifications needed by palliative care staff, especially GPs, to know how to treat/take care of these patients → higher pain medication despite patients not communicating such a need → good provider training needed
Socio-cultural	 Language barriers: former guest-workers are now in age needing HBPC No other religions (Muslims, Jews) are reached by HBPC: other culture of dying/family involvement People from eastern and southern background have different demands for more therapy and not palliative care Cultural concept of palliative care, as understood by the general population, still does not fit the much broader definition of palliative care, which is much more than pain treatment for cancer patients 	Culture-sensitive care: increasing awareness about this topic, palliative care speaking different languages helpful
Socio-economic	 Inequality in healthcare access also in palliative care for low SES people (vs highly educated people, middle class benefit) ○ If people receive social welfare then HBPC is secured because it is paid for ○ Difficult for people with little money as they have to pay/organise for themselves → cannot afford HBPC 	
Political	 Politics facilitate participation of palliative care institutions in policy making via position papers and discussions Good access to HBPC (this is German specialised ambulatory palliative care, SAPV) is due to regulation implemented in 2007 	

Domains	Identified barriers	Measures/Solutions
	 which guarantees financing of HBPC by statutory health insurances Categorisation of different care-levels for reimbursement does not equal actual provision (intensity) of care The health care system may not allow the implementation of rHBPC in the way we define it, as there are different systems of palliative care that altogether make up for HBPC (huge voluntary sector for basic palliative care and "SAPV" for specialized palliative care) 	
Legal	 Reluctance of private insurances to finance HBPC, leading to problems (law suits) who finances HBPC services in some cases A clear specification of tasks helps to prevent legal problems, in Germany medical decision is always made by the doctor 	Standardisation of HBPC
Ethical	 Assisted suicide is an enormous debate and problematic: Knowledge- and communication problem Lack of knowledge of provider and family about needs of patients in last phase of life: appropriate nutrition, adequate liquids etc. are lacking Lack of manpower for HBPC could be an ethical problem, although basic palliative care does exist in Germany 	 Transparency needed/cultural change needed to talk about death etc. Need to bring knowledge into system: For professionals but also for informal caregivers/families and the patients
Provider	 No further training for GPs exists Lack of trained providers 	 Specific training/education for GPs to improve basic palliative care, will be implemented with new law Task shifting: e.g. a well-trained nurse could fulfil palliative care tasks (especially in rural areas)
Organisational	HBPC in terms of emotional support for family/patients depends a lot on voluntary workers who are integrated in German HBPC system	•

Domains	Identified barriers	Measures/Solutions
	Lack of doctors will lead to problem in HBPC	
Funding	Not discussed	Not discussed
Policies	 Weakness in implementation of 2007 regulation: no specific information what a HBPC team should constitute: federalism and no agreement on criteria by the government leads to heterogeneity in quality of care and financing (e.g. team size ranges from 8-10 to 20 people, different billing systems etc.) New law will be implemented in autumn 2015 to improve basic palliative care → more GPs engaging in HBPC → improved quality of care due to more training → effects on financial reimbursement 	Standardisation of HBPC, more specific legislation

Table 3 Expert consultation summary findings in Poland

Domain	Identified barriers	Measures/Solutions
Geographical	 variability of coverage of HBPC in different regions in Poland (e.g. CARITAS with a very good system operates only in south of Poland (Opole and Down Silesia voivodship) some regions do not have enough palliative care specialists general brain drain in Poland not enough palliative care centres and no clear picture exists (differing between regions) Limited access to palliative care in rural areas → better access in cities (but problem of waiting lists; see organisational 	

Domain	Identified barriers	Measures/Solutions
	factors)	
Setting	Discussed but information later transferred to other domain (geographical)	
Epidemiological	 Access to palliative care differs according to disease: list of patients who can receive palliative care excludes many diseases (especially non-malignant diseases), such as Alzheimer's disease or renal insufficiency Fewer female attendants in social welfare centres An example from Wroclaw, a big city: most inhabitants are older, many younger people go abroad → need for more palliative care → HBPC difficult due to missing generations in one family who could help/provide care for each other Women usually take over care but they should be supported more by men 	- Expand list of entitled patients (political!)
Socio-cultural	 health literacy: lack of knowledge among patients regarding their rights: what they are entitled to receive and which institutions can help them lack of understanding regarding need for HBPC ("some patients are asking why the doctor arrived for them") negative image of palliative care among population some people see palliative doctor "walking with a scythe" 	 media campaign to change people's opinion about palliative medicine: make them understand the problem and increase awareness in society help of church: e.g. priests can promote palliative care from the pulpit raising awareness of term "palliative care" → means also treating patients who are not terminally ill but as an alternative when primary care cannot help Volunteers over 50 years could take care of palliative care patients, they are well-trained
	- brain drain: less health personnel (doctors, nurses, social professions) stay in Poland but go abroad	and should receive some financial reimbursement

Domain	Identified barriers	Measures/Solutions
		 one should pay attention to the role of education and teams sharing of responsibilities within a family
	 Many young people work abroad in England, Germany etc. lack of contact among family after family member's death Children want to leave older parents in hospice because they do not know how to look after them Women with pain are treated worse than men Physicians tend to underestimate the pain suffered by patients As Christians we may not understand other religious rituals, e.g. of Roma 	
Socio-economic	- Per patient 2 diapers a day are financed → problem for those patients who need more	
Political	 Two Ministries, the Ministry of Health and the Ministry of Labour and Social Policy, are involved with palliative care leading to practical problems such as difficulties in communication and delivery of HBPC e.g. at the moment social workers cannot assist with (r)HBPC 	 Stronger collaboration on national and local level between social (in Poland "MOPS" – Miejski Ośrodek Pomocy Społecznej – A Local Unit of Social Help) and palliative/hospice care
	• Certain diseases excluded from palliative care, at the moment 90% of patients are cancer patients (excluded: renal insufficiency, COPD, heart failure, Alzheimer etc.)	- creation of pressure groups to incorporate other disease groups into entitlement for palliative care
	 lack of political support for palliative care Palliative care is a topic around All Saints Day only Palliative care for children could be a separate skill palliative care training is insufficient—only 1 short course—and should be changed 	 Appropriate criteria for admission of patients to palliative care time may help when politicians' parents will require palliative care → window of

Domain	Identified barriers	Measures/Solutions
		opportunity to strengthen and raise image of palliative care
Legal	 The list of medical services and the drugs needed for specific diseases is strictly limited by the National Health Fund (NFZ) because their costs are reimbursed. One restriction includes, for example, the drug oxycodone which is reimbursed in oral formulations but not for intravenous and subcutaneous route (ampoules). More drugs are reimbursed for cancer diseases but not for others Only 14 days leave per year are allowed for the care of a family member Problem with rehabilitation regulations – it is not available when patient is in palliative care – it may only be provided from a palliative care team, whereas it is often for a long time and could be from a local unit Legal issues regarding cooperative work of social workers and medical personnel due to responsibility of different ministries vs experience in other fields, e.g. schools teachers, dentists and nurses working together successfully There is a lack of regulations → need to clarify: May family administer drugs via the IV and SC routes? especially SC, IV routes (for example in paediatric palliative care parents give children medications via the IV route guided by a palliative care team at home or over the phone) In case of parenteral nutrition intravenous or pump administration of drugs is not allowed except for neutral liquid. Drugs can only be administered in hospital. There is serious legal conflict due to 24 hours of care 7 days a week, which breaks the law (a demand of 24/7 work in hospice care versus legal regulation of a maximum of 40h/week) demand of 24/7 work in hospice care versus legal regulation of a maximum of 40h/week 	 leave for caregivers should be substantially changed to allow more time to take care of sick family member more flexible regulation to provide long term care from local units Clarification of who should manage and finance palliative care: financing is from NFZ (National Health Fund), the legal rules are form the Ministry of Health but the social tasks are run by the Ministry of Labour and Social Policy use media to pressure politics to change laws for palliative care

Domain	Identified barriers	Measures/Solutions
Ethical	 Unresolved issues associated with do-not-resuscitate (DNR) patients due to lacking regulation A patient who signed a DNR form, no resuscitation action should be performed. However, DNR orders are not always obeyed as doctors are often afraid of legal prosecution and afraid to talk openly with patients. Often palliative sedation may be instituted in intractable symptoms, which for example in teenagers is often reversible, many people think that it is "slow euthanasia" Insufficient psychiatric and psychological care for patients, insufficient treatment of depression The elderly are often side-lined by society (as patients as well as within the work force) 	- increase of psychological care in general in
Provider	 lack of social workers and nurses working in Poland inadequate training for volunteers who support patients/families Undergraduate palliative care education of medical professionals is limited, especially for doctors (better for physiotherapists and nurses), including ethical, interpersonal and interdisciplinary skills to improve HBPC → lack of knowledge / high quality care 	 Volunteers should have better training, there should be more people as candidates for volunteers, so we could choose "better" candidates specification of required minimum number of lectures during medical studies → So-called "shoes marketing" – means that palliative medicine doctors can educate other physicians when they know each other Implementation of stricter requirements for physicians working in home-based palliative care to ensure quality of care

Domain	Identified barriers	Measures/Solutions
		 → funds for education (funding) training for communication between team (doctors, nurses, patients)
	missing communication between palliative care team	
	students ask for help to learn communication skills	- workshops on communication, each doctor should complete a post- diploma course (1
	 Psycho-oncology is important for palliative care treatment, especially regarding communication with patients 	year) in psycho- oncology (available in many universities in Poland)
		→ Financial support for those attending post diploma studies in psycho-oncology and pain medicine (funding)
	 health professionals are overworked risk of burnout of medical professionals due to job expectations, lack of time and resources and lack of psychological support 	 more psychological support for professionals working in palliative care and possibility of additional leave it would be better to have a minimum
	• need for stricter requirements to provide palliative care (professional experience is relevant for this field)	curriculum standard for palliative care in each university (see organisational)
	• Several medical universities in Poland have no palliative care units (Warszawa, Lublin, Bialystok – 3 out of 11), in other universities palliative care is taught within other subjects e.g. oncology (Lodz), anaesthesiology (Wroclaw), concerns about	
	quality of teaching with other subjects and limitations of hours; unfortunately, each university is autonomic and has its own curriculum	
Organisational	 missing cooperation and communication with family doctors (GPs) who know the patients and hospice/ palliative care care, at the moment sole responsibility is with hospital 	- good example: child palliative care organisation: GPs receive detailed information about patients and have the

Domain	Identified barriers	Measures/Solutions
		possibility to contact palliative care /hospice units at any time and to meet with hospice staff
	 waiting lists in big cities for HBPC due to limited number of patients under palliative care per hospital regulated by contracts imposed by NFZ, if more patients in HBPC programme this is not financed Lack of some opioids e.g. methadone for intravenous and subcutaneous routes is unavailable, oxycodone rarely used by these routes makes palliative care more difficult 	- no limits for patients in contracts
	 system does not encourage the provision of HBPC (see funding) There is a special fast "path" for a diagnosis of patients suspected with cancer ("oncology pack" in Polish "pakiet onkologiczny", for faster diagnosis and quicker access to oncology treatment for patients suspected and then diagnosed (or not) with cancer). At the moment, in Poland there is often a significant waiting time for surgery, radiotherapy and chemotherapy due to the large number of patients and insufficient possibilities of providing treatment for cancer patients. This also refers to waiting for specific investigations such as CT, MRI or PET scans that are extremely important in cancer diagnosis Bereavement care is limited due to lack of time, finances from national health fund 	the fast diagnosis path package should be enlarged and include palliative care
	(NFZ), sometimes through primary care ("podstawowa opieka zdrowotna" (POZ), consisting mostly by GPs and nurses for adults, as well as paediatricians for children in out-patient clinics or visiting patients at home)lack of training for psychiatrists	- Establishment of self-help groups could be helpful
Funding	 HBPC is financed by the national health fund (NFZ) via a fixed scheme (per day) which does not allow flexibility, e.g. some patients rarely need visits and some more often but the requirement is fixed at two doctoral visits per month and at most 2 visits per week by a nurse independent of the patients' and families' needs. In outpatient clinics: the reimbursement for a visit of the patient in the clinic is the 	 payment per visit with an appropriate calculation of the finances additional financing source for doctors and nurses working in small localities /rural areas

Domain	Identified barriers	Measures/Solutions
	same as when the patient is visited at home → clinics avoid home visits due to financial disadvantage for clinic Funds for medical palliative care are insufficient and society is very dissatisfied with the NFZ as it limits the number of patients treated and often prevents more expensive therapies, e.g. for cancer patients, from being used. Furthermore the amount of financing for home care patients who live nearby and those who live further away is the same leading to financial problems due to very different transportation costs (rural areas!) (HB) palliative care system relies on support of sponsors (CARITAS, private institutions, citizens) e.g. private institutions donating cars to do home visits or citizens who give 1% of their annual tax to donate e.g. to hospices (for cars, beds etc.) (also socio-cultural) however, of the 1% taxes collected 80% goes to children and only 20% to the needs of older people The reimbursement is insufficient, especially for patients with non–malignant pain	 National Health Fund and funding system should be restructured to improve the financial situation in health care Generally better financing from NFZ needed, EU funds can be used for 5 years, perhaps own financing system of the palliative care units should be established (not from the NFZ) Establishment of certified palliative care units by Polish Association for Palliative Medicine (PTMP) that could obtain better financial resources from NFZ
Policies	 The AOTMiT ("Agencja Oceny Technologii Medycznych i Taryfikacji"- Agency of Assessment of Medical Technologies an Tariffication) assessed the financing of all types of palliative care (home, inpatient, outpatient) in September 2015; not yet known which finances will be available and when they will be implemented (e.g. only in 2017) 	